

### APPENDIX

148. A graphical user interface ("GUI") which provides controllers for affecting operation of a data storage device, the GUI comprising a first controller which alters at least one of a seek time of the data storage device and an acoustic noise level of the data storage device by changing seek trajectory shape to reduce unwanted frequencies by shaping input signals to the data storage device.

149. A GUI according to Claim 148, wherein the first controller causes progressive changes in the noise level and the seek time of the data storage device; and wherein as the first controller increases the noise level of the data storage device, the first controller causes the seek time of the data storage device to decrease, and as the first controller decreases the noise level of the data storage device, the first controller causes the seek time of the data storage device to increase.

150. A GUI according to Claim 149, wherein the first controller comprises a sliding bar which moves along a continuum on which data storage device noise level and seek time vary inversely, the continuum including a first end comprising a high noise level/low seek time and a second end comprising a low noise level/high seek time.

151. A GUI according to Claim 150, further comprising a display area which displays discrete values corresponding to the noise level and/or the seek time of the data storage device set by the first controller.

156. A GUI according to Claim 148, wherein the first controller comprises discrete values which are selectable to alter the noise level and/or the seek time of the data storage device.

159. A GUI according to Claim 148, wherein settings in the GUI override previous settings in the data storage device.

160. A GUI according to Claim 148, further comprising a preview controller, the preview controller causing the data storage device to operate using a noise level set by the first controller.

161. A method of controlling operation of a data storage device, the method comprising the steps of:

generating a graphical user interface ("GUI"), the GUI providing a first controller for controlling at least one of a seek time of the data storage device and an acoustic noise level of the data storage device;

operating the first controller so as to alter settings in the GUI for at least one of the seek time and the noise level of the data storage device; and

outputting commands to the data storage device to alter seek trajectory shape to reduce unwanted frequencies in accordance with altered settings in the GUI by shaping input signals to the data storage device.

164. Computer-executable process steps stored on a computer-readable medium, the computer-executable process steps to control operation of a data storage device, the computer-executable process steps comprising:

code to generate a graphical user interface ("GUI"), the GUI providing a first controller for controlling at least one of a seek time of the data storage device and an acoustic noise level of the data storage device;

code to operate the first controller so as to alter settings in the GUI for at least one of the seek time and the noise level of the data storage device; and

code to output commands to the data storage device causing the data storage device to alter seek trajectory shape to reduce unwanted frequencies in accordance with altered settings in the GUI by shaping input signals to the data storage device.

167. An apparatus for controlling operation of a data storage device, the apparatus comprising:

a memory which stores computer-executable process steps; and

a processor which executes the process steps so as (i) to generate a graphical user interface ("GUI"), the GUI providing a first controller for controlling at least one of a seek time of the data storage device and an acoustic noise level of the data storage device, (ii) to operate the first controller so as to alter settings in the GUI for at least one of the seek time and the noise level of the data storage device, and (iii) to output commands to the data storage device causing the data storage device to alter seek trajectory shape to reduce unwanted frequencies in accordance with altered settings in the GUI by shaping input signals to the data storage device.

187. Method of controlling operation of a data storage device, the method comprising the steps of:

providing a controller for controlling at least one of a seek time of the data storage device and an acoustic noise level of the data storage device;

operating the controller so as to alter settings in the controller of a seek time and the noise level of the data storage device in inverse relation; and

outputting commands to the data storage device causing the data storage device to alter seek trajectory shape to reduce unwanted frequencies in accordance with the altered settings by shaping input signals to the data storage device.

188. A disc drive comprising a controller under control of a user which alters seek time of the disc drive and acoustic noise level of the disc drive in inverse relation by changing seek trajectory shape to reduce unwanted frequencies by shaping input signals to the disc drive.

189. The disc drive of claim 188 wherein the controller comprises discrete values which are selectable to alter the noise level and/or the seek of the disc drive.

190. The disc drive of claim 188 wherein a setting in the controller overrides a previous setting.

191. Computer-executable process steps stored on a computer-readable medium, the computer-executable process steps to control operation of a data storage device, the computer-executable process steps comprising:

code providing a first controller for controlling at least one of a seek time of a data storage device and an acoustic noise level of a data storage device;

code to operate the first controller so as to alter settings for the seek time and the noise level of the data storage device in inverse relation; and

code to output commands to the data storage device causing the data storage device to alter seek trajectory shape to reduce unwanted frequencies in accordance with altered settings by shaping input signals to the data storage device.

192. Apparatus for controlling operation of a data storage device, the apparatus comprising:

a memory which stores computer-executable process steps; and

a processor which executes the process steps to provide a first controller for controlling at least one of a seek time of a data storage device and an acoustic noise level of the data storage device, to operate the first controller so as to alter settings for the seek time and the noise level of the data storage device in inverse relation, and to output commands to the data storage device causing the data storage device to alter seek trajectory shape to reduce unwanted frequencies in accordance with the altered settings by shaping input signals to the data storage device.

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